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FIGURE 1

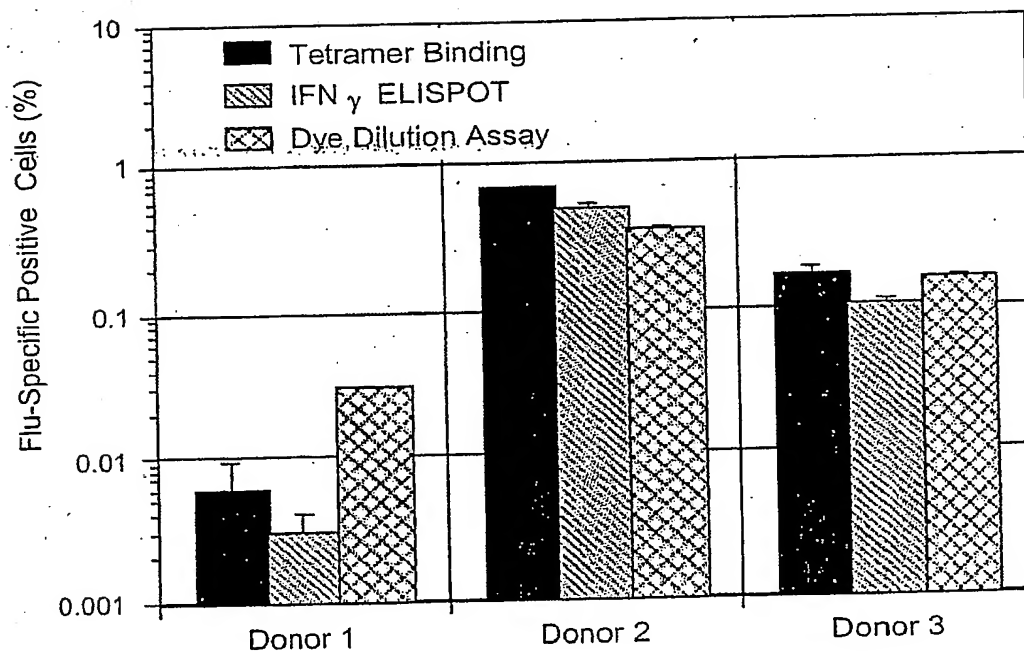
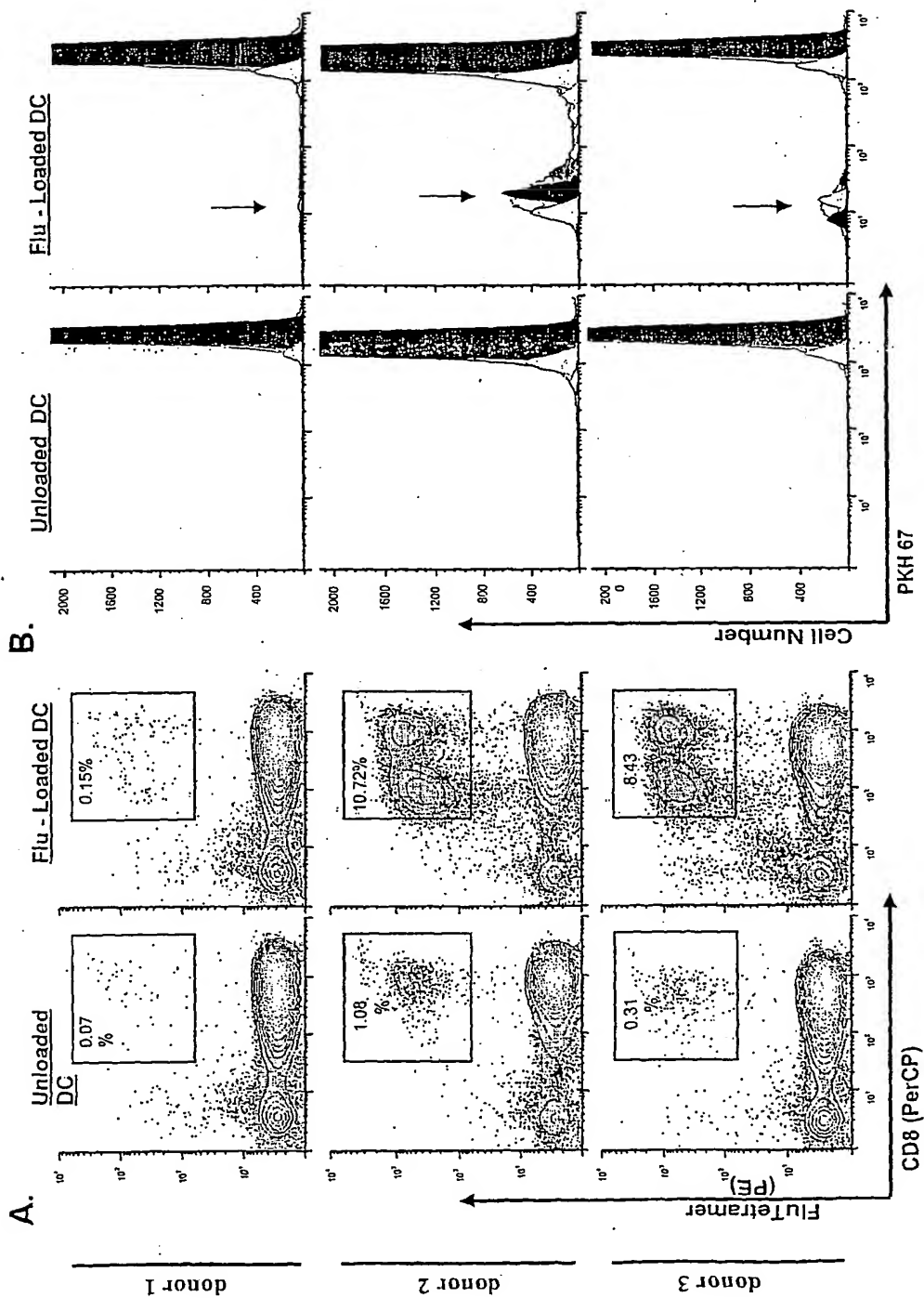
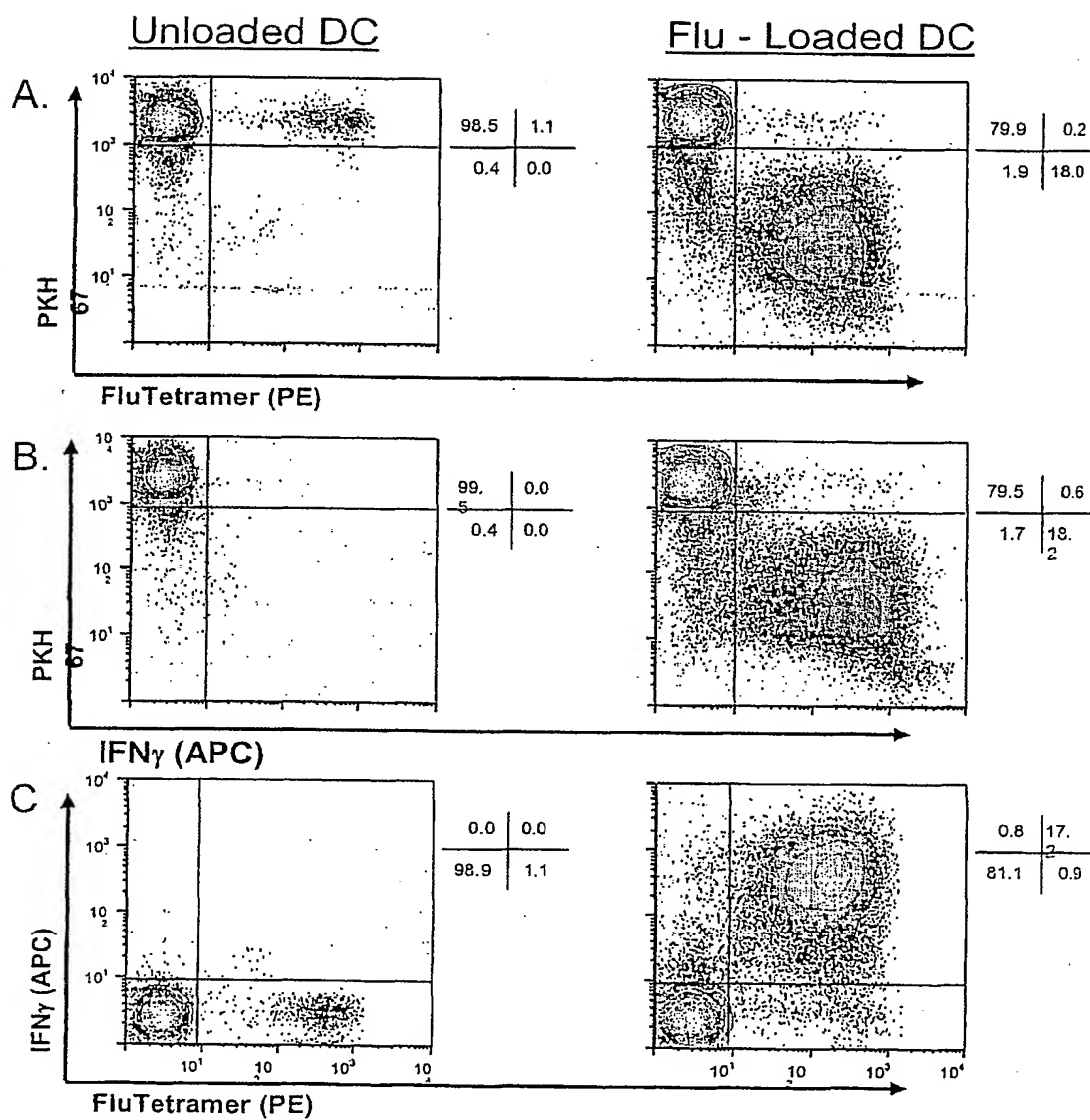


FIGURE 2



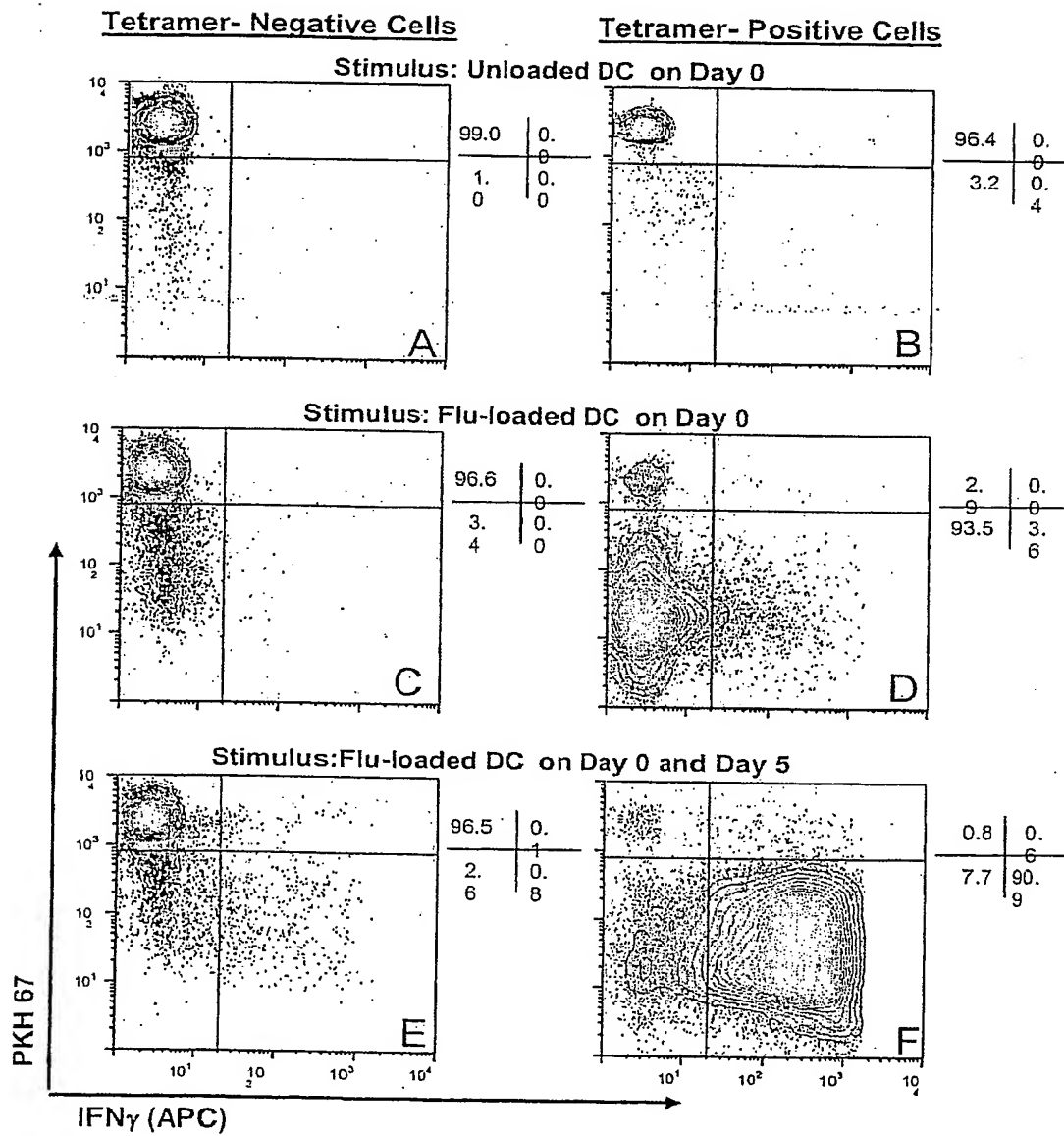
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FIGURE 3



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FIGURE 4



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TABLE I

CD8 T CELLS WITH FLU-LOADED DC		TETRAMER-POSITIVE CELLS		TETRAMER-NEGATIVE CELLS	
PROLIF	IFN $\gamma$	% ON DAY 6	CALCULATED % PRECURSOR	% ON DAY 6	CALCULATED PRECURSOR %
-	-	2.12	38.83	95.35	99.54
-	+	0.44	8.08	0.08	0.08
+	-	13.80	6.81	4.36	0.36
+	+	83.63	46.29	0.21	0.01

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TABLE II

	PROLIF	IFN $\gamma$	with FLU-LOADED		with UNLOADED DC	
			TET POS	TET NEG	TET POS	TET NEG
DONOR #1	-	-	0.03 $\pm$ 0.00	99.87 $\pm$ 0.01	0.03 $\pm$ 0.00	99.87 $\pm$ 0.01
	-	+	0.0 $\pm$ 0.00	0.03 $\pm$ 0.01	0.00 $\pm$ 0.00	0.03 $\pm$ 0.01
	+	-	0.00 $\pm$ 0.00	0.06 $\pm$ 0.01	0.00 $\pm$ 0.00	0.07 $\pm$ 0.00
	+	+	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00
DONOR #2	-	-	0.52 $\pm$ 0.18	98.23 $\pm$ 0.28	1.27 $\pm$ 0.02	98.6 $\pm$ 0.02
	-	+	0.11 $\pm$ 0.04	0.08 $\pm$ 0.01	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00
	+	-	0.09 $\pm$ 0.02	0.36 $\pm$ 0.01	0.01 $\pm$ 0.00	0.12 $\pm$ 0.00
	+	+	0.60 $\pm$ 0.06	0.01 $\pm$ 0.00	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00
DONOR #3	-	-	0.30 $\pm$ 0.14	99.00 $\pm$ 0.39	0.44 $\pm$ 0.03	99.38 $\pm$ 0.03
	-	+	0.08 $\pm$ 0.03	0.09 $\pm$ 0.05	0.00 $\pm$ 0.00	0.01 $\pm$ 0.00
	+	-	0.07 $\pm$ 0.03	0.23 $\pm$ 0.02	0.00 $\pm$ 0.00	0.17 $\pm$ 0.01
	+	+	0.20 $\pm$ 0.14	0.03 $\pm$ 0.03	0.00 $\pm$ 0.00	0.00 $\pm$ 0.00

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FIGURE 5

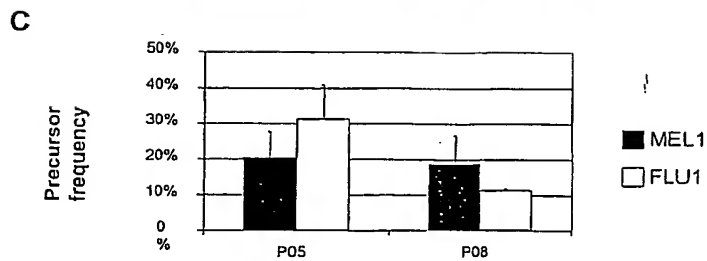
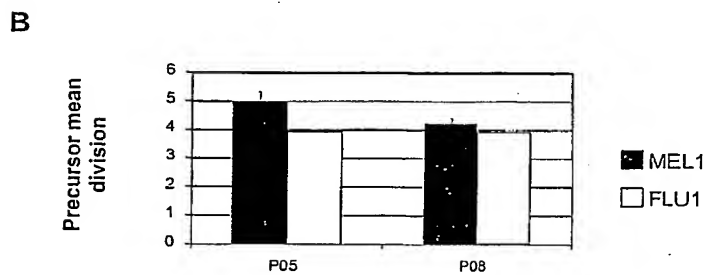
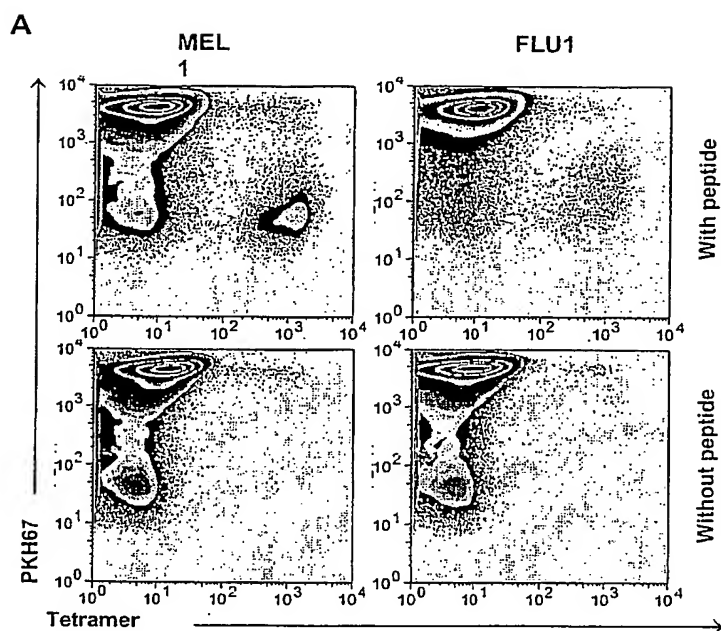


FIGURE 6

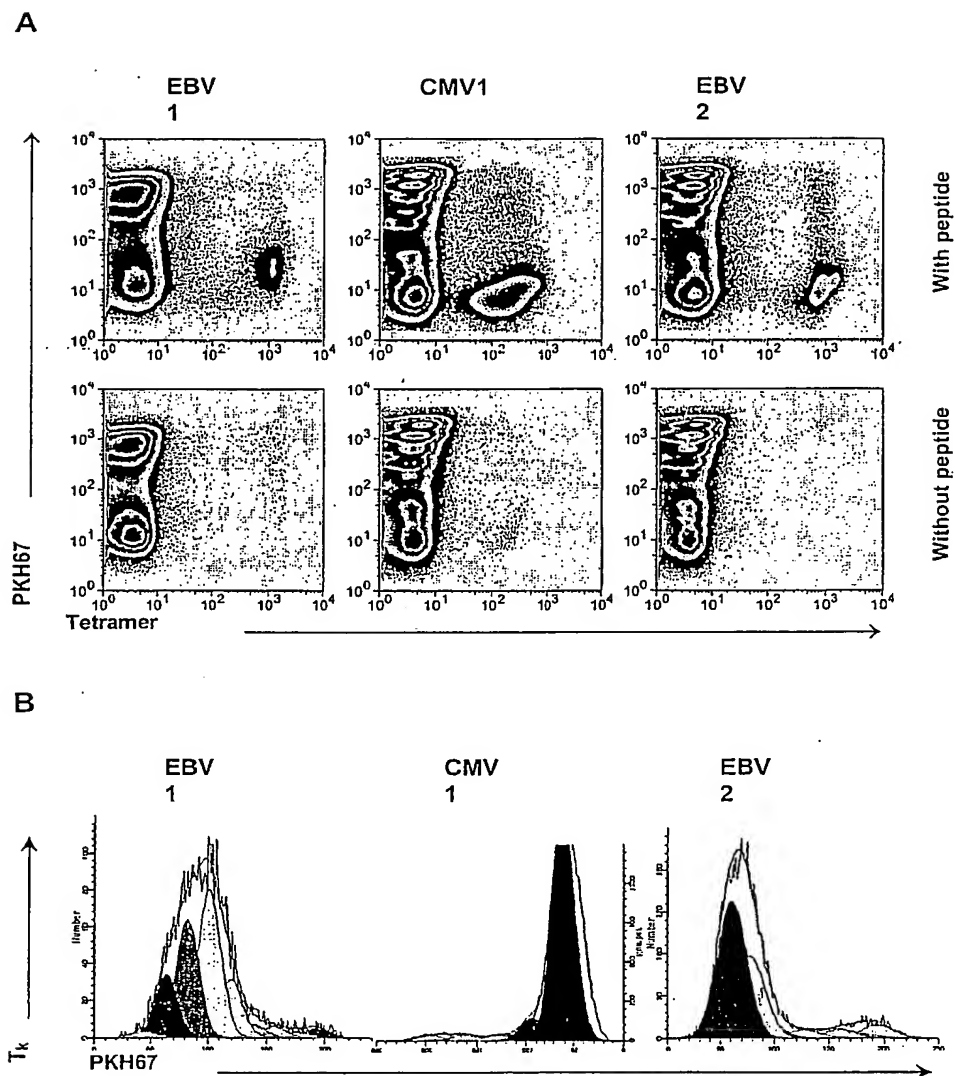
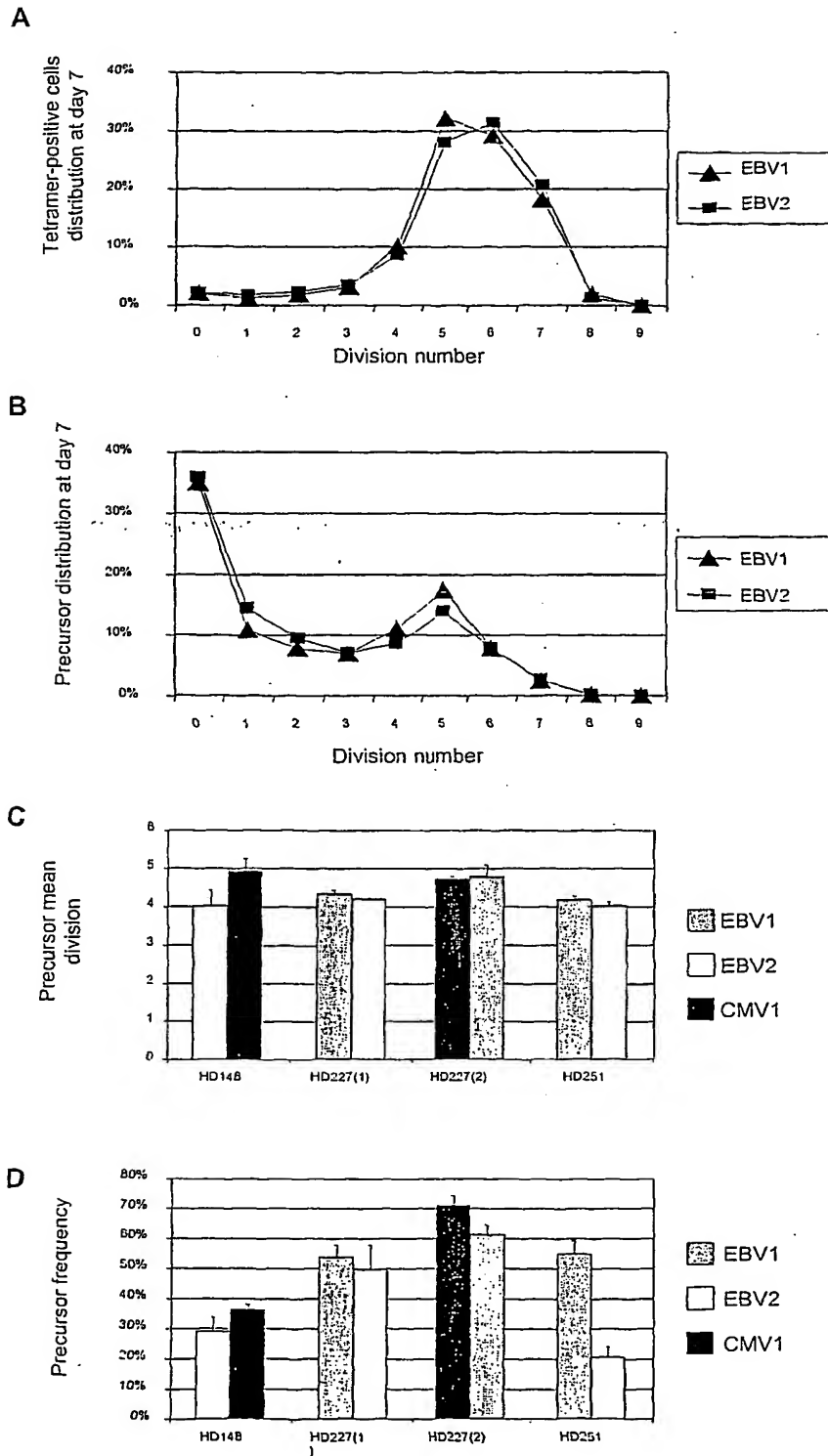




FIGURE 7



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FIGURE 8

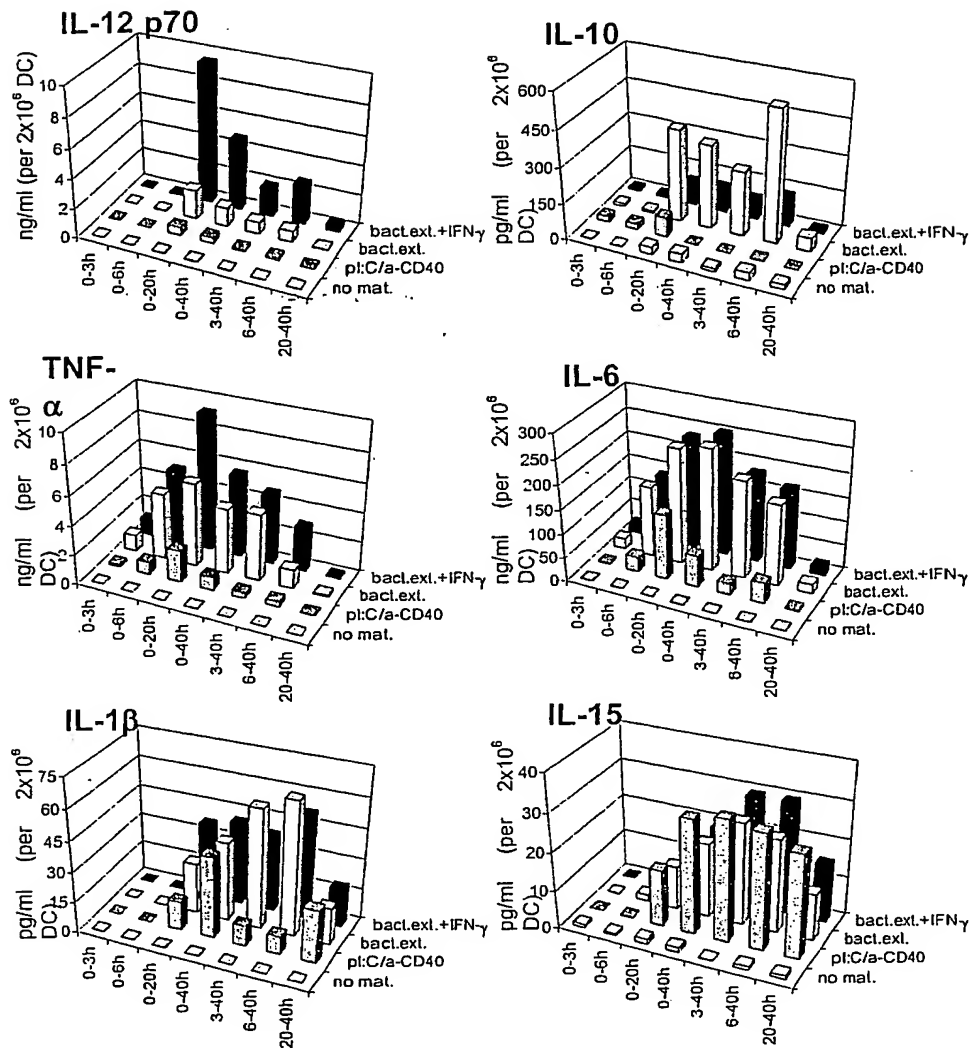
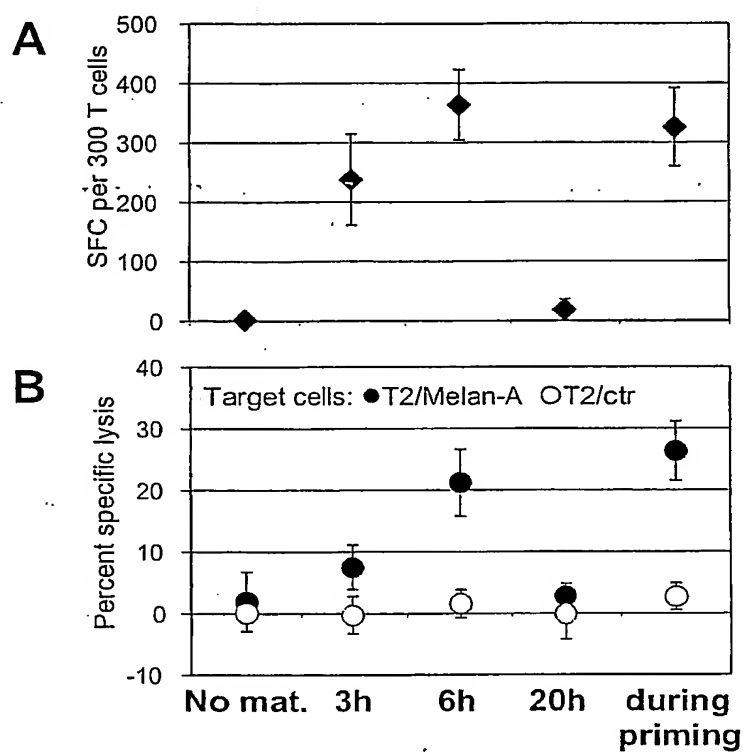


FIGURE 9



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FIGURE 10

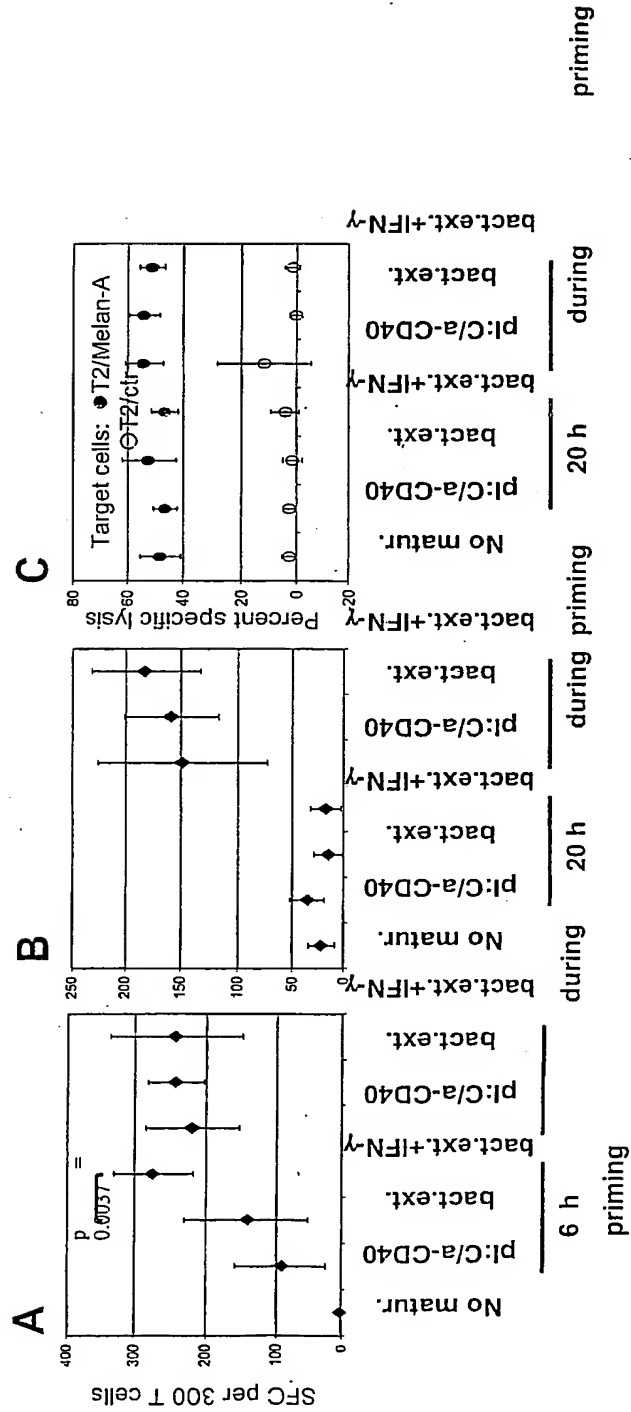
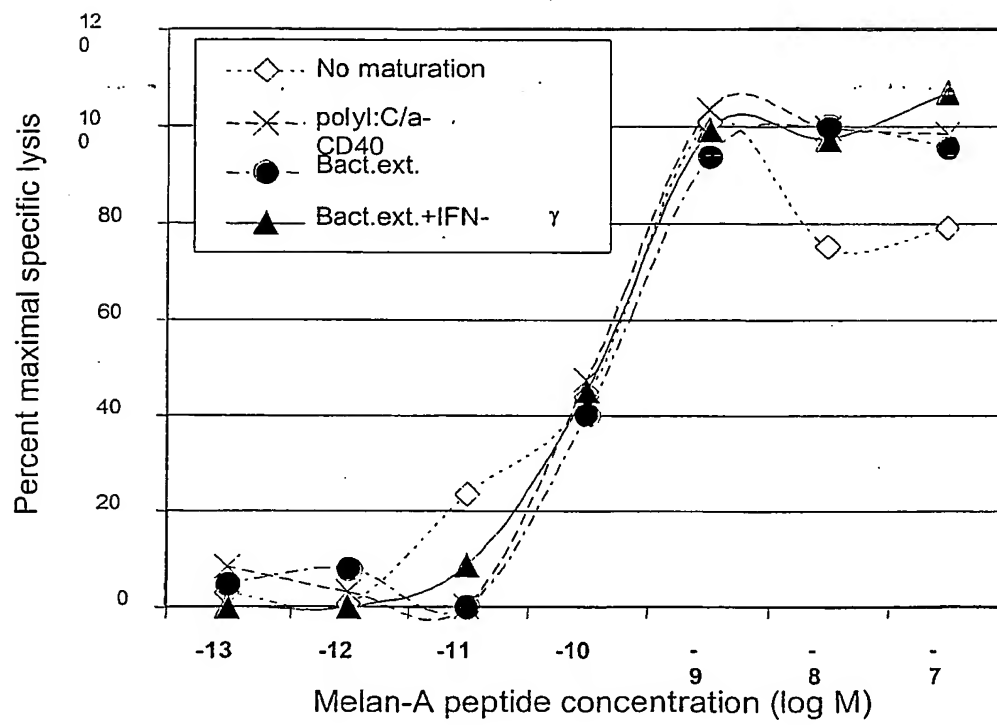
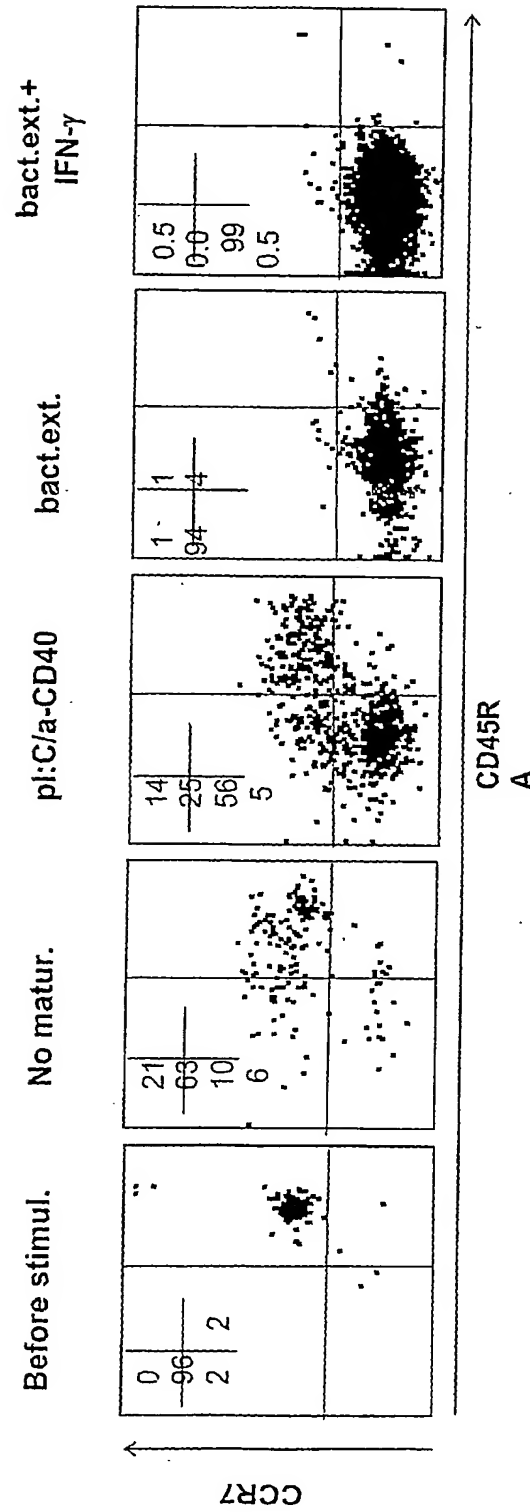


FIGURE 11



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FIGURE 12



**A** No matur. during priming

DC/Melan-A	3h DC/Melan-A	DC/PSA	6h DC/Melan-A	20h DC/Melan-A	during priming DC/Melan-A
A2/Melan-A	0.1	0.1	4.7	0.1	0.1
PKH67	0.1	0.1	0.0	0.2	0.2
A2/Melan-A	0.1	0.1	4.6	0.9	7.1
PKH67	0.1	0.1	4.5	1.4	11.

**B** DC/Melan-A, maturation during priming

DC/Melan-A	0.03	0.01	0.2	0.2
A2/M1	4.5	0.01	0.01	0.2
A2/EBV	4.8	0.01	0.01	0.2
PKH67	4.5	0.01	0.01	0.2

**C** DC/Melan-A, a-IL-12+a-IL-12R

DC/Melan-A	5.	9	10.	5
A2/Melan-A	1.3	3.5	10.	5
PKH67	1.3	3.5	10.	5

TABLE III

Table III. Precursors frequencies (PF, percentage) and proliferation indexes (PI) of Melan-A-specific CD8<sup>+</sup> T cells proliferating after stimulation with non-matured DC or DC treated with bacterial extract and IFN- $\gamma$  for 3, 6, 20 h or during priming.

	HD70		HD160		HD169		HD122	
MAT.TIME	PF	PI	PF	PI	PF	PI	PF	PI
-	0.7	1.5	6.6	2.3	1.8	1.2	6.4	2.0
3 h	11	15	14.8	34.3	ND		ND	
6 h	20.4	36.5	13.7	28.2	5.8	2.8	28	49
20 h	ND <sup>a</sup>		4.8	5.2	ND		ND	
IVS <sup>b</sup>	ND		17	35.5	11.5	13.1	32	60

<sup>a</sup> ND: not done

<sup>b</sup> IVS: in vitro stimulation (maturation during priming)

TABLE IV



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Table IV. Precursors frequencies (PF, percentage) and proliferation indexes (PI) of Melan-A-specific CD8<sup>+</sup> T cells after stimulation with non-matured DC or DC treated for 6 h with polyI:C/anti-CD40 or bacterial extract in the presence or absence of IFN- $\gamma$ .

	HD70		HD160		HD169		HD122	
MAT. AGENT	PF	PI	PF	PI	PF	PI	PF	PI
None	0.7	1.5	6.6	2.3	1.8	1.2	6.4	2.0
polyI:C/a-CD40	5	6.5	3.7	4.2	1.2	1.2	8.2	5.6
Bact.ext.	8.4	14.9	ND <sup>a</sup>		2.3	1.3	9.7	9.9
Bact.ext.+IFN- $\gamma$	20.4	36.5	13.7	28.2	5.8	2.8	28	49

<sup>a</sup> ND: not done

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FIGURE 14

